

**KEYPAD ARRAY HAVING REDUCED NUMBER OF INPUT/OUTPUTS AND  
METHOD FOR GENERATING SAME**

**ABSTRACT OF THE DISCLOSURE**

5           The invention concerns a method (200) of generating an array (100, 300, 400) having a reduced number of input/outputs (114, 314, 414). The method includes the steps of, for each array row input/output, grouping (212) at least one set of rows (124, 324, 424) in which the set of rows is coupled to the array row input/output and, for each combination of the array row  
10 input/outputs, selectively coupling (216) non-set rows (326, 426) to the array row input/outputs that comprise the combination. At least a portion of a number of rows (110, 310, 410) for the array is equal to the number of rows in each set of rows multiplied by the number of array row input/outputs plus the number of non-set rows coupled to the array row input/output combinations.

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